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(54) APPARATUS FOR CONTROLLING TRANSMIT ANTENNA DIVERSITY IN MOBILE COMMUNICATION SYSTEM

(57) Abstract:

PURPOSE: An apparatus for controlling a transmit antenna diversity in a mobile communication system is provided, so that a base station can control transmit power of two antennas by weighting the transmit power, by making a terminal measure relative receiving signal strength of the two antennas, to transmit measured information to the base station through a channel such as a reverse link dedicated control channel. CONSTITUTION: An apparatus for controlling a transmit antenna diversity in a mobile communication system comprises a central controller(111), space-time transmit diversity(STTD) coders(103,105), multiplexers(104,106), a diffuser, and a transmit power controller. The central controller decides a transmit mode according to a mobile speed of a terminal and a handoff region. The STTD coders perform STTD coding processes for transmitting information in a base station. The multiplexers separate signals into at least two antenna signals. The diffuser diffuses the separated signals with orthogonal codes and scrambles the orthogonal codes. The transmit power controller controls transmit power ratios of antennas according to feedback information received from the terminal.

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